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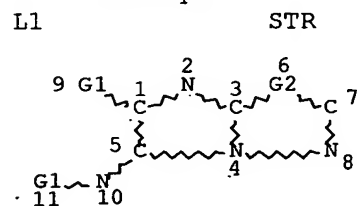
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FILE COVERS 1907 - 11 Apr 2005 VOL 142 ISS 16  
 FILE LAST UPDATED: 10 Apr 2005 (20050410/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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VAR G1=AK/CY  
 VAR G2=C/N  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE  
 L3 130 SEA FILE=REGISTRY SSS FUL L1  
 L4 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L3  
 L5 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND PD=<OCTOBER 8, 1999

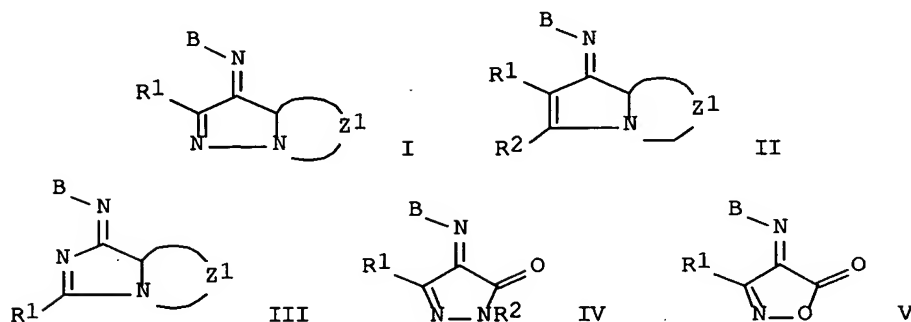
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=> d ibib abs hitstr 15 1-11

L5 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:235926 HCAPLUS Full-text  
 DOCUMENT NUMBER: 130:304094  
 TITLE: Optical recording material and optical recording method using the same  
 INVENTOR(S): Honda, Mari; Onishi, Akira; Tanaka, Tatsuo; Nakayama, Yoriko  
 PATENT ASSIGNEE(S): Konica Co., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11099745	A2	19990413	JP 1997-261904	19970926 <--
PRIORITY APPLN. INFO.: GI			JP 1997-261904	19970926



AB The optical recording material contains a metal complex dye represented by a general formula  $M-(-Dye)m_1(A_1)n_1$  [ $M$  = metal ion; Dye = dye selected from I, II, III, IV, and V;  $A_1$  = anion;  $m_1 = 1, 2, 3$ ;  $n_1 = 0, 1, 2, 3$ ; B = aromatic carbon ring, heterocyclyl;  $R_1, R_2 = H$ , monovalent substituent;  $Z_1 = 5$ - or  $6$ -membered N-containing heterocyclyl] in a recording layer. The material shows excellent characteristics and storage stability.

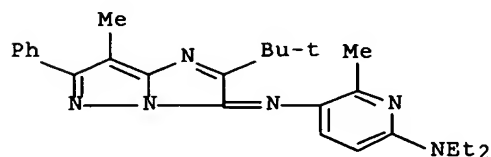
IT **222846-89-1D**, nickel beta diketone complex

RL: DEV (Device component use); USES (Uses)

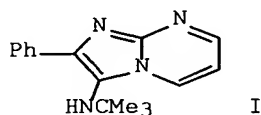
(metal complex dye in recording layer of optical recording material)

RN 222846-89-1 HCAPLUS

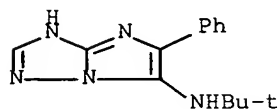
CN 2,5-Pyridinediamine, N5-[2-(1,1-dimethylethyl)-7-methyl-6-phenyl-3H-imidazo[1,2-b]pyrazol-3-ylidene]-N2,N2-diethyl-6-methyl- (9CI) (CA INDEX NAME)



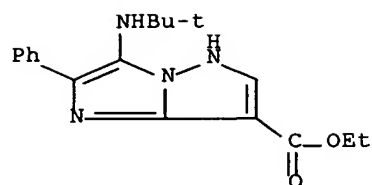
L5 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1998:624858 HCAPLUS Full-text  
 DOCUMENT NUMBER: 129:302566  
 TITLE: A new heterocyclic multicomponent reaction for the  
 combinatorial synthesis of fused 3-aminoimidazoles  
 AUTHOR(S): Bienayme, Hugues; Bouzid, Kamel  
 CORPORATE SOURCE: Rhone-Poulenc Technologies, St-Fons, F-69192, Fr.  
 SOURCE: Angewandte Chemie, International Edition (1998  
 ), 37(16), 2234-2237  
 CODEN: ACIEF5; ISSN: 1433-7851  
 PUBLISHER: Wiley-VCH Verlag GmbH  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 129:302566  
 GI



AB Reaction of heteroarom. amidines, aldehydes, and isonitriles in the presence  
 of a catalytic amount of protic acids gave fused 3-aminoimidazoles. E.g.,  
 HClO<sub>4</sub>-catalyzed reaction of 2-aminopyrimidine, PhCHO, and Me<sub>3</sub>CNC gave 82%  
 imidazopyrimidine I.  
 IT **214531-45-0P 214531-46-1P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of fused aminoimidazoles by multicomponent reaction of  
 aminoamidines, aldehydes, and isonitriles)  
 RN 214531-45-0 HCAPLUS  
 CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-phenyl-  
 (9CI) (CA INDEX NAME)



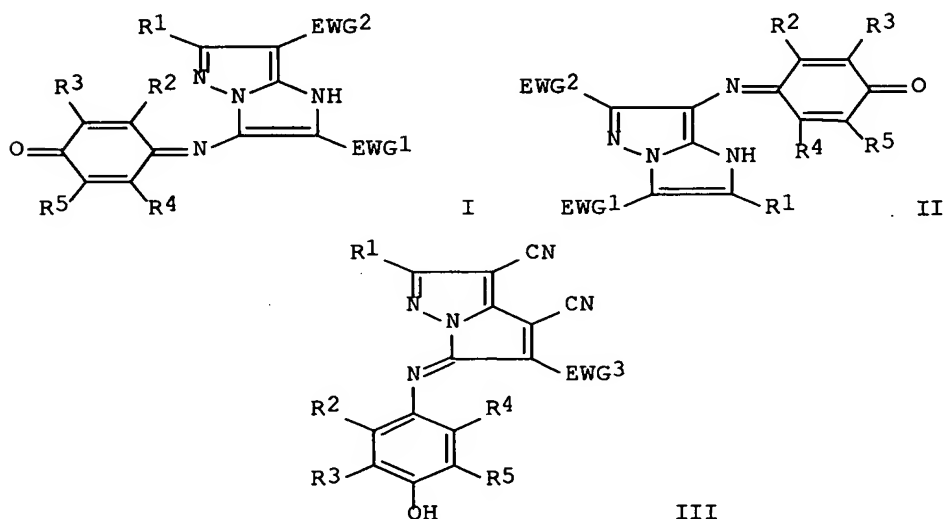
RN 214531-46-1 HCAPLUS  
 CN 5H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[(1,1-dimethylethyl)amino]-  
 2-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1995:890612 HCAPLUS Full-text  
 DOCUMENT NUMBER: 124:71459  
 TITLE: Diffusion-transfer silver halide photographic material containing indophenol dye-releasing compound  
 INVENTOR(S): Nakamura, Takemare  
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 53 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07219179	A2	19950818	JP 1994-33236	19940207 <--
PRIORITY APPLN. INFO.: GI			JP 1994-33236	19940207



AB The material contains (Dye-X)qY (Dye = I, II, III; X = bond, linking group; Y = group giving diffusivity difference of dye component; R1-5 = H, cyano,

carboxyl, sulfo, halo, alkyl, aryl, heterocyclic, acyl, sulfonyl alkoxy, etc.; EWG1-3 = electron-drawing group Hammett's  $\sigma$  para  $\geq 0.1$ ;  $\geq 1$  R and EWG bonds to X; q = 1, 2). The material gives clear color photog. image with good lightfastness.

IT 171912-00-8P 171912-01-9P

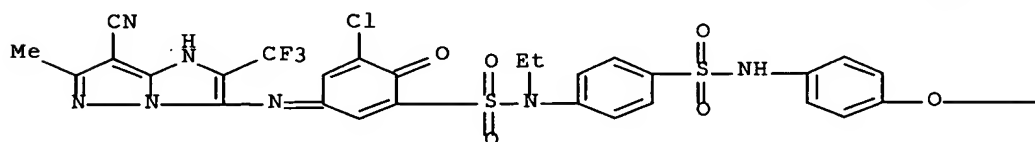
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)

(diffusion-transfer Ag halide photog. material containing indophenol dye-releasing compound)

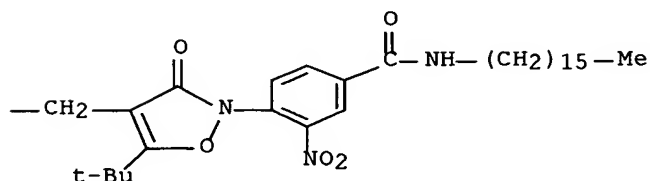
RN 171912-00-8 HCAPLUS

CN Benzamide, 4-[4-[[4-[[[4-[[[5-chloro-3-[[7-cyano-6-methyl-2-(trifluoromethyl)-1H-imidazo[1,2-b]pyrazol-3-yl]imino]-6-oxo-1,4-cyclohexadien-1-yl]sulfonyl]ethylamino]phenyl]sulfonyl]amino]phenoxy]methyl]-5-(1,1-dimethylethyl)-3-oxo-2(3H)-isoxazoly]l]-N-hexadecyl-3-nitro-(9CI) (CA INDEX NAME)

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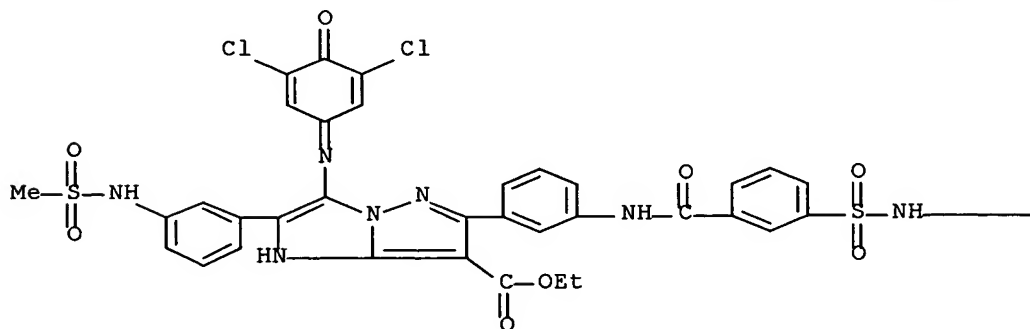
PAGE 1-B



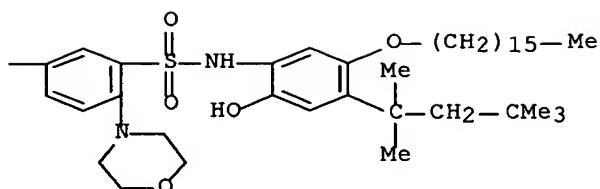
RN 171912-01-9 HCAPLUS

CN 1H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[(3,5-dichloro-4-oxo-2,5-cyclohexadien-1-ylidene)amino]-6-[3-[[3-[[[3-[[[5-(hexadecyloxy)-2-hydroxy-4-(1,1,3,3-tetramethylbutyl)phenyl]amino]sulfonyl]-4-(4-morpholinyl)phenyl]amino]sulfonyl]benzoyl]amino]phenyl]-2-[3-[(methylsulfonyl)amino]phenyl]-, ethyl ester (9CI) (CA INDEX NAME)

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PAGE 1-B



IT 171912-03-1P 171912-07-5P 171912-09-7P

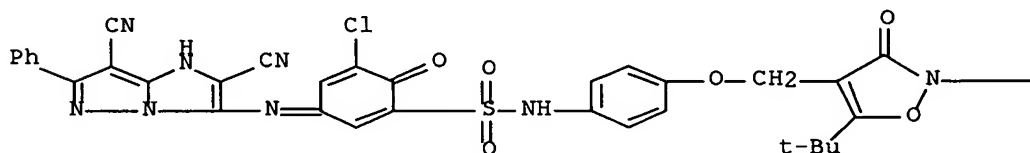
RL: PNU (Preparation, unclassified); PREP (Preparation)

(diffusion-transfer Ag halide photog. material containing indophenol dye-releasing compound)

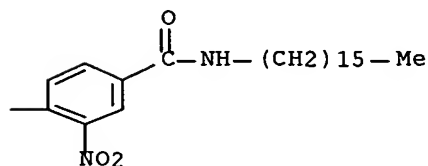
RN 171912-03-1 HCAPLUS

CN Benzamide, 4-[4-[4-[5-chloro-3-[(2,7-dicyano-6-phenyl-1H-imidazo[1,2-b]pyrazol-3-yl)imino]-6-oxo-1,4-cyclohexadien-1-yl)sulfonyl]amino]phenoxy)methyl]-5-(1,1-dimethylethyl)-3-oxo-2(3H)-isoxazolyl]-N-hexadecyl-3-nitro- (9CI) (CA INDEX NAME)

PAGE 1-A



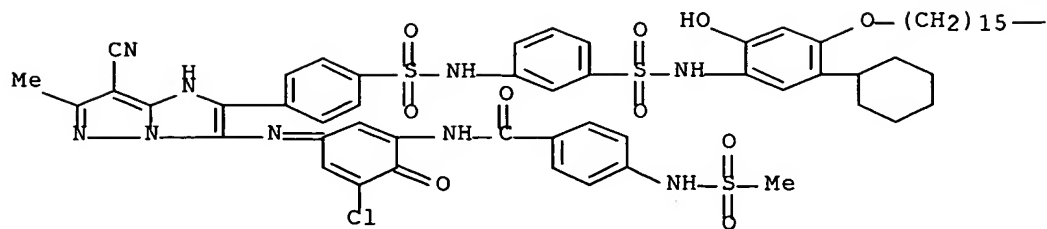
PAGE 1-B



RN 171912-07-5 HCAPLUS

CN Benzamide, N-[5-chloro-3-[[7-cyano-2-[4-[[[3-[[[5-cyclohexyl-4-(hexadecyloxy)-2-hydroxyphenyl]amino]sulfonyl]phenyl]amino]sulfonyl]phenyl]-6-methyl-1H-imidazo[1,2-b]pyrazol-3-yl]imino]-6-oxo-1,4-cyclohexadien-1-yl]-4-[(methylsulfonyl)amino]- (9CI) (CA INDEX NAME)

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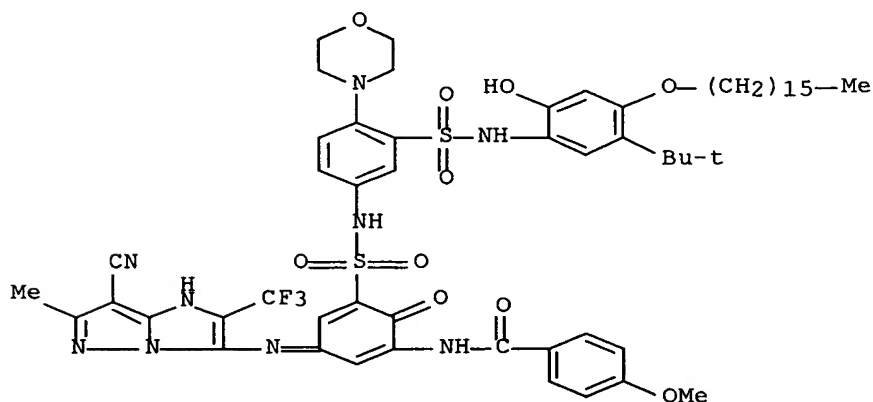


PAGE 1-B

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RN 171912-09-7 HCAPLUS

CN Benzamide, N-[3-[[7-cyano-6-methyl-2-(trifluoromethyl)-1H-imidazo[1,2-b]pyrazol-3-yl]imino]-5-[[[3-[[[5-(1,1-dimethylethyl)-4-(hexadecyloxy)-2-hydroxyphenyl]amino]sulfonyl]-4-(4-morpholinyl)phenyl]amino]sulfonyl]-6-oxo-1,4-cyclohexadien-1-yl]-4-methoxy- (9CI) (CA INDEX NAME)



IT 171912-21-3P 171912-25-7P

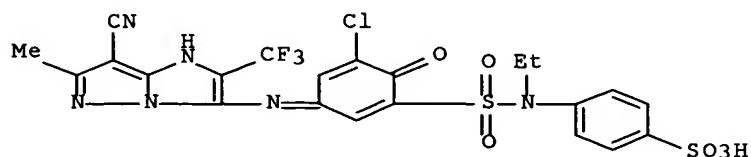
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);

RACT (Reactant or reagent)

(in azo dye preparation)

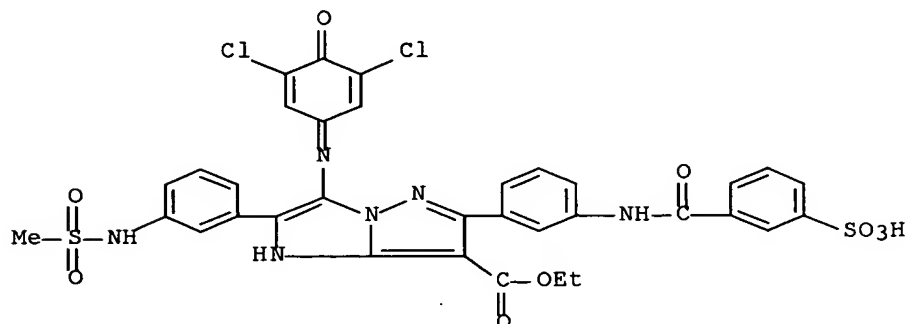
RN 171912-21-3 HCAPLUS

CN Benzenesulfonic acid, 4-[[[5-chloro-3-[[7-cyano-6-methyl-2-(trifluoromethyl)-1H-imidazo[1,2-b]pyrazol-3-yl]imino]-6-oxo-1,4-cyclohexadien-1-yl]sulfonyl]ethylamino]- (9CI) (CA INDEX NAME)



RN 171912-25-7 HCAPLUS

CN 1H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[(3,5-dichloro-4-oxo-2,5-cyclohexadien-1-ylidene)amino]-2-[3-[(methylsulfonyl)amino]phenyl]-6-[3-[(3-sulfobenzoyl)amino]phenyl]-, 7-ethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:522866 HCAPLUS Full-text

DOCUMENT NUMBER: 122:268336

TITLE: Azomethine dyes for thermal-transfer recording  
providing fast high-density images with good  
storability

INVENTOR(S): Kamio, Takayoshi; Tateishi, Tomoyoshi

PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

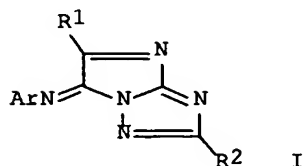
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 07053887	A2	19950228	JP 1993-203193	19930817 <--
JP 3581380	B2	20041027		
PRIORITY APPLN. INFO.:			JP 1993-203193	19930817
OTHER SOURCE(S):	MARPAT	122:268336		

GI



AB The title dyes have the general formula I (R1, R2 = H, alkyl, aryl, heterocyclic, alkoxy, alkoxy, or aryloxy group; Ar



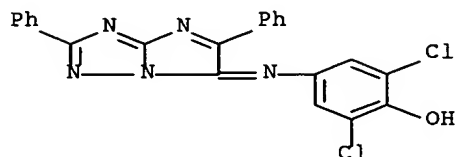
= p-aminophenyl or p-hydroxyphenyl group). A dye donor layer used with a receptor containing basic compds. and/or mordants was formed from I (Ar = 4-diethylamino-2-methylphenyl; R1 = Me3C; R2 = Ph) 10, poly(vinyl butyral) 10, KF-96 silicone 0.2, and Takenate D110N 0.5 g in 100 mL MEK and 80 mL toluene.

IT 64981-13-1 162753-23-3 162753-24-4  
162753-25-5 162753-26-6 162753-27-7  
162753-28-8 162753-29-9 162753-30-2  
162753-31-3 162753-32-4 162753-33-5  
162753-34-6

RL: TEM (Technical or engineered material use); USES (Uses)  
(azomethine dyes for thermal-transfer recording providing fast high-d. images with good storability)

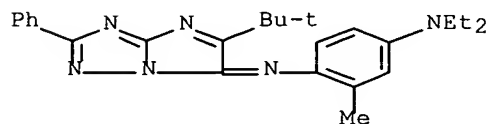
RN 64981-13-1 HCAPLUS

CN Phenol, 2,6-dichloro-4-[(2,5-diphenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene)amino]- (9CI) (CA INDEX NAME)



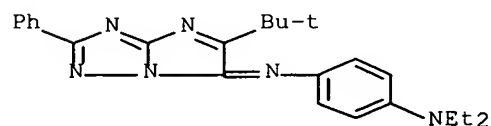
RN 162753-23-3 HCAPLUS

CN 1,4-Benzenediamine, N1-[5-(1,1-dimethylethyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N4,N4-diethyl-2-methyl- (9CI) (CA INDEX NAME)



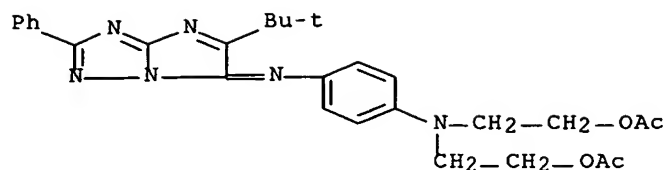
RN 162753-24-4 HCAPLUS

CN 1,4-Benzenediamine, N'-[5-(1,1-dimethylethyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N,N-diethyl- (9CI) (CA INDEX NAME)



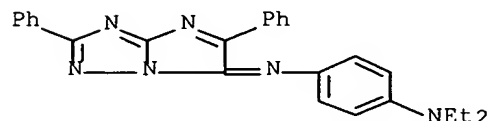
RN 162753-25-5 HCAPLUS

CN Ethanol, 2,2'-[[4-[[6-(1,1-dimethylethyl)-2-phenyl-5H-imidazo[1,2-b][1,2,4]triazol-5-ylidene]amino]phenyl]imino]bis-, diacetate (ester) (9CI) (CA INDEX NAME)



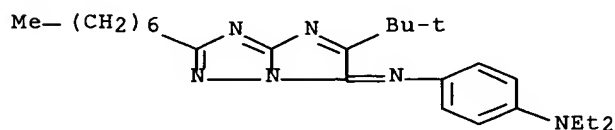
RN 162753-26-6 HCAPLUS

CN 1,4-Benzenediamine, N'-(2,5-diphenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene)-N,N-diethyl- (9CI) (CA INDEX NAME)



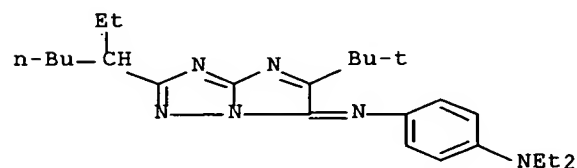
RN 162753-27-7 HCAPLUS

CN 1,4-Benzenediamine, N'-[5-(1,1-dimethylethyl)-2-heptyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N,N-diethyl- (9CI) (CA INDEX NAME)



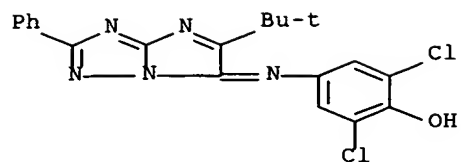
RN 162753-28-8 HCAPLUS

CN 1,4-Benzenediamine, N'-[5-(1,1-dimethylethyl)-2-(1-ethylpentyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N,N-diethyl- (9CI) (CA INDEX NAME)



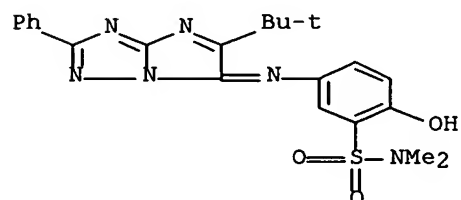
RN 162753-29-9 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[5-(1,1-dimethylethyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



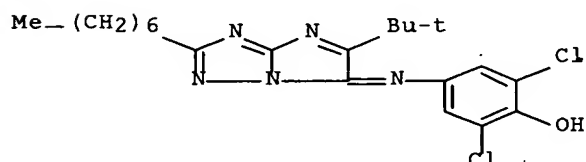
RN 162753-30-2 HCAPLUS

CN Benzenesulfonamide, 5-[[5-(1,1-dimethylethyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]-2-hydroxy-N,N-dimethyl- (9CI) (CA INDEX NAME)



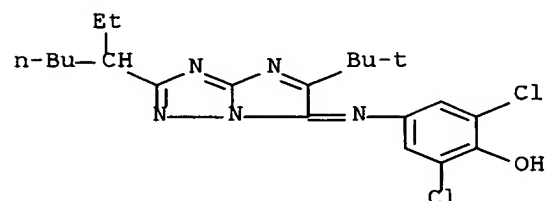
RN 162753-31-3 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[5-(1,1-dimethylethyl)-2-heptyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



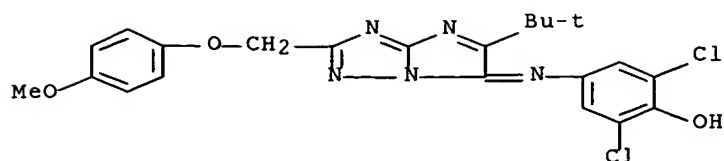
RN 162753-32-4 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[5-(1,1-dimethylethyl)-2-(1-ethylpentyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)

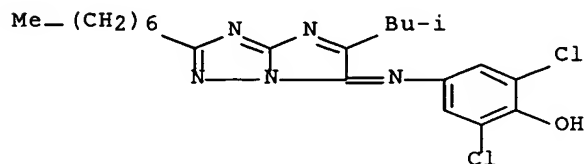


RN 162753-33-5 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[5-(1,1-dimethylethyl)-2-[(4-methoxyphenoxy)methyl]-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



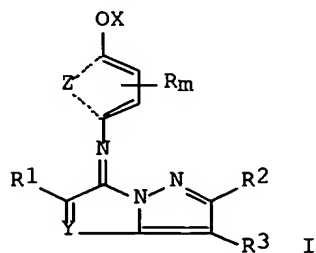
RN 162753-34-6 HCAPLUS  
 CN Phenol, 2,6-dichloro-4-[[2-heptyl-5-(2-methylpropyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



L5 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1994:591405 HCAPLUS Full-text  
 DOCUMENT NUMBER: 121:191405  
 TITLE: Thermal-transfer recording material containing magenta dye  
 INVENTOR(S): Nakayama, Noritaka; Miura, Akio; Komamura, Tawara  
 PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06106867	A2	19940419	JP 1992-254946	19920924 <--
PRIORITY APPLN. INFO.:			JP 1992-254946	19920924
OTHER SOURCE(S):	MARPAT	121:191405		

GI



AB The recording material has a support coated with a heat-sensitive layer containing a pyrrolopyrazole derivative I (R1-3 = H, halo, alkyl, aryl, aralkyl, alkoxy, aryloxy, CN, carbamoyl, acylamino, alkylthio, arylthio, sulfonylamino, alkoxy carbonyl, aryloxy carbonyl, SO<sub>2</sub>, acyl, amino, heterocyclic group; R2 and R3 may form ring; R = H, alkyl, alkoxy, acylamino, halo, aryl; m = 1-4; R may form ring if m ≥ 2; Z = atomic group to form aromatic ring; Y = C, N; X = H, protonated N-containing organic base). The recording material gave high-d. images with good color reproduction

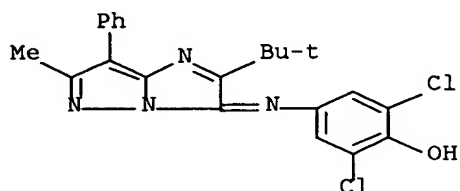
IT 157761-18-7 157761-19-8 157761-21-2

RL: USES (Uses)

(dye, magenta, thermal-transfer recording material containing, for high-d. images)

RN 157761-18-7 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[2-(1,1-dimethylethyl)-6-methyl-7-phenyl-3H-imidazo[1,2-b]pyrazol-3-ylidene]amino]- (9CI) (CA INDEX NAME)



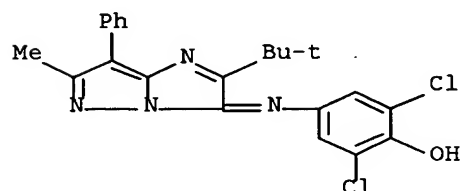
RN 157761-19-8 HCAPLUS

CN Phenol, 2,6-dichloro-4-[[2-(1,1-dimethylethyl)-6-methyl-7-phenyl-3H-imidazo[1,2-b]pyrazol-3-ylidene]amino]-, compd. with N,N'-diphenylguanidine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 157761-18-7

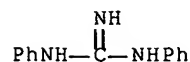
CMF C22 H20 Cl2 N4 O



CM 2

CRN 102-06-7

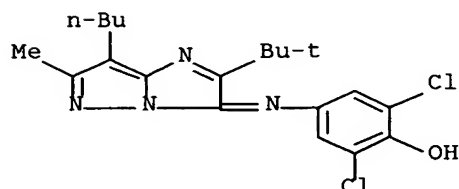
CMF C13 H13 N3



RN 157761-21-2 HCAPLUS  
 CN Guanidine, N,N'-diphenyl-, compd. with 4-[[7-butyl-2-(1,1-dimethylethyl)-6-methyl-3H-imidazo[1,2-b]pyrazol-3-ylidene]amino]-2,6-dichlorophenol (1:1)  
 (9CI) (CA INDEX NAME)

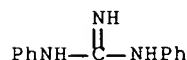
CM 1

CRN 157761-20-1  
 CMF C20 H24 Cl2 N4 O



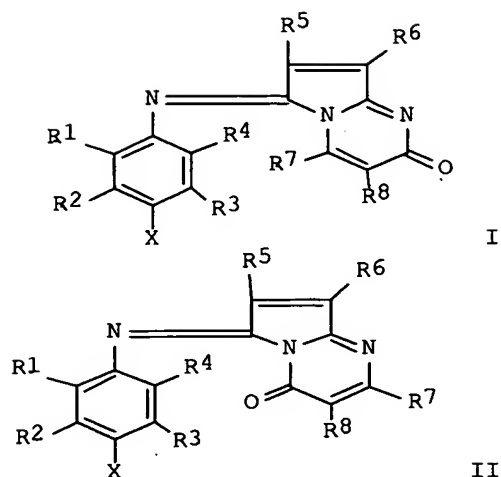
CM 2

CRN 102-06-7  
 CMF C13 H13 N3



L5 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1994:566817 HCAPLUS Full-text  
 DOCUMENT NUMBER: 121:166817  
 TITLE: silver halide photographic material  
 INVENTOR(S): Myaki, Yukio; Mikoshiba, Takashi; Shimada, Yasuhiro  
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 37 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 05341430	A2	19931224	JP 1992-153399	19920612 <--
PRIORITY APPLN. INFO.:			JP 1992-153399	19920612
OTHER SOURCE(S):	MARPAT	121:166817		
GI				



AB A black-and-white silver halide photog. material for use in x-ray films comprises silver halide photog. emulsion layers and an insol. azomethine dye represented by the formula I and II (R1-8 = H or a nonmetallic atomic group; X = OH or NR9R10; R9, R10 = H, alkyl, aryl, or a heterocyclic ring group with the proviso that R1 and R2, R2 and R9, R9 and R10, R3 and R10, R3 and R4, R5 and R6, and/or R7 and R8 may combine to form a ring) or the like in a hydrophilic colloidal layer on the same or opposite side of the photog. emulsion layers.

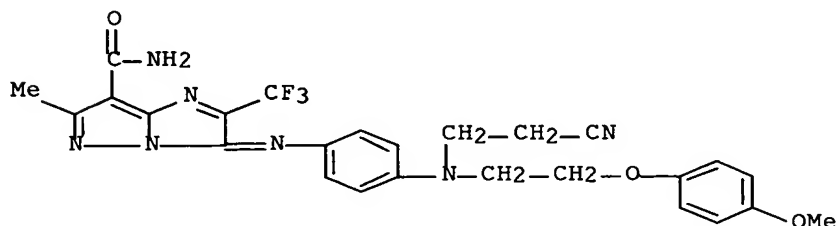
IT **157683-31-3**

RL: USES (Uses)

(black-and-white silver halide photog. materials containing)

RN 157683-31-3 HCAPLUS

CN 3H-Imidazo[1,2-b]pyrazole-7-carboxamide, 3-[[4-[(2-cyanoethyl)[2-(4-methoxyphenoxy)ethyl]amino]phenyl]imino]-6-methyl-2-(trifluoromethyl)-(9CI) (CA INDEX NAME)



L5 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:485716 HCAPLUS Full-text

DOCUMENT NUMBER: 121:85716

TITLE: Phenolic quaternary salt dyes and thermal transfer recording materials using the same

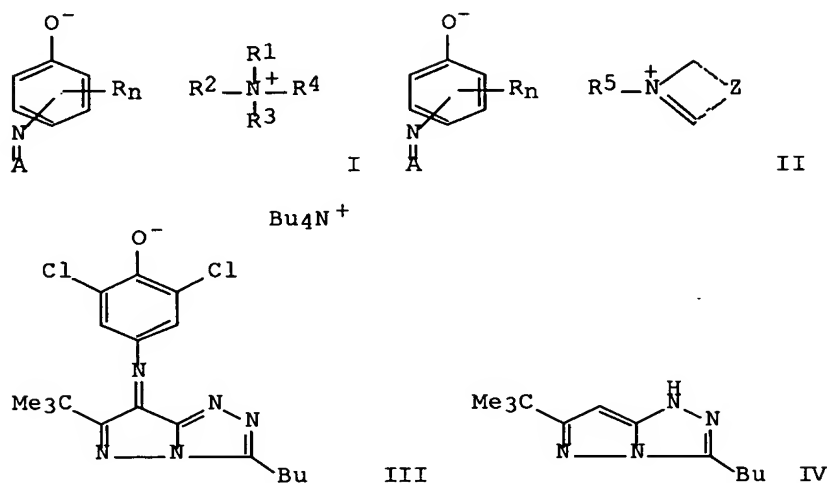
INVENTOR(S): Nakayama, Noritaka; Miura, Akio; Takeyama, Toshihisa; Komamura, Tawara

PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06080900	A2	19940322	JP 1992-236020	19920903
JP 3350736	B2	20021125		
PRIORITY APPLN. INFO.:			JP 1992-236020	19920903
OTHER SOURCE(S):		MARPAT 121:85716		
GI				



AB The title dyes also useful in color filters and other imaging processes have the general formula I or II (A = a N-bonded group of atoms needed for absorption in the visible region; R = benzene ring substituent; n = 0-4; R1-4 = alkyl, aryl; R5 = alkyl; Z = a group of atoms needed for forming 5- or 6-membered rings together with N). III was prepared starting from IV and 2,6-dichloro-4-aminophenol and coated together with styrene-acrylonitrile copolymer solution on a PET film to obtain a color filter showing dye retention 80% after irradiated 6 days by a xenon lamp.

IT 156353-64-9

RL: USES (Uses)

(dye, for color filters and imaging inks)

RN 156353-64-9 HCAPLUS

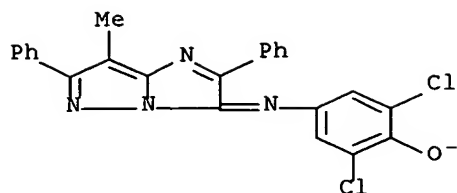
CN 1-Butanaminium, N,N,N-trimethyl-, salt with 2,6-dichloro-4-[(7-methyl-2,6-diphenyl-3H-imidazo[1,2-b]pyrazol-3-ylidene)amino]phenol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 156353-63-8

CMF C24 H15 C12 N4 O

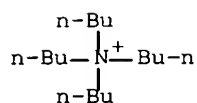




CM 2

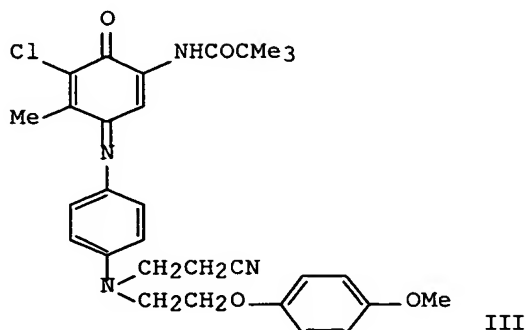
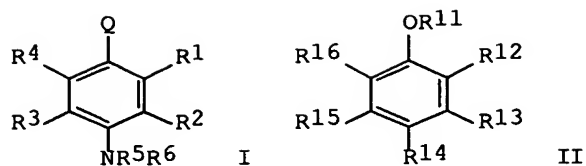
CRN 10549-76-5

CMF C16 H36 N



L5 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1993:82830 HCAPLUS Full-text  
 DOCUMENT NUMBER: 118:82830  
 TITLE: Fading-resistant azomethine dyes for imaging and filters  
 INVENTOR(S): Mikoshiba, Takashi; Tanaka, Mitsugi; Morigaki, Masakazu; Kubodera, Seiichi  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04239061	A2	19920826	JP 1991-12470	19910110 <--
PRIORITY APPLN. INFO.:			JP 1991-12470	19910110
OTHER SOURCE(S):	MARPAT	118:82830		
GI				



AB The dyes have the general formula I, where Q = group absorbing in the visible and/or near IR region; R1-R6 = H, nonmetallic substituents,  $\geq 1$  of which is bonded to II; R11 = nonmetallic substituent; R12-R16 = H, nonmetallic substituent, with R12 and/or R14 being an alkoxy or amino group, and are especially useful as filter materials for liquid-crystal color television displays. III,  $\lambda_{\max}$  603 nm, was prepared in 55.4% yield starting from 2,3,5,4-HOCl2MeC6H<sub>2</sub>NHCO<sub>2</sub>Me and p-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>N(CH<sub>2</sub>CH<sub>2</sub>CN)CH<sub>2</sub>CH<sub>2</sub>OC<sub>6</sub>H<sub>4</sub>OMe-p.2TsOH.

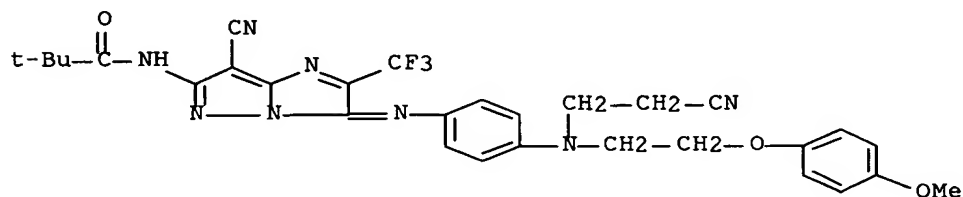
IT **145901-49-1P**

RL: PREP (Preparation)

(dye, fading-resistant, for imaging and optical filters, manufacture of)

RN 145901-49-1 HCAPLUS

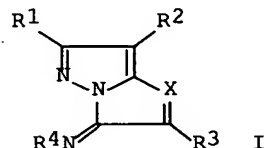
CN Propanamide, N-[7-cyano-3-[[4-[(2-cyanoethyl)[2-(4-methoxyphenoxy)ethyl]amino]phenyl]imino]-2-(trifluoromethyl)-3H-imidazo[1,2-b]pyrazol-6-yl]-2,2-dimethyl- (9CI) (CA INDEX NAME)



L5 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1993:40822 HCAPLUS Full-text  
 DOCUMENT NUMBER: 118:40822  
 TITLE: Dyes for inks  
 INVENTOR(S): Shimada, Yasuhiro  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04202261	A2	19920723	JP 1990-325583	19901129 <--
JP 2587322	B2	19970305		
US 5210200	A	19930511	US 1991-799192	19911127 <--
PRIORITY APPLN. INFO.:			JP 1990-325583	A 19901129
			JP 1990-330774	A 19901130
OTHER SOURCE(S):	MARPAT 118:40822			
GI				



AB Dyes providing lightfast ink jet-printed images have the general formula I (R1 = H, substituent; R2, R3 = substituent; X = N, CR5; R4 = aromatic group, unsatd. heterocyclic group; R5 = substituent). I [R1 = AcNH; R2 = CN; X = CCN; R3 = Ph; R4 = 4,2-(MeSO2NHCH2CH2NEt)MeC6H3] was prepared in 4 steps starting from NCCH2C(NH2):C(CN)2.

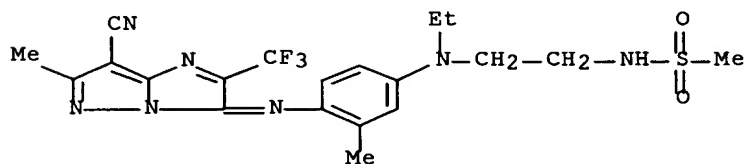
IT **145316-98-9P 145316-99-0P 145317-01-7P**

RL: PREP (Preparation)

(manufacture of, as dye for jet-printing inks)

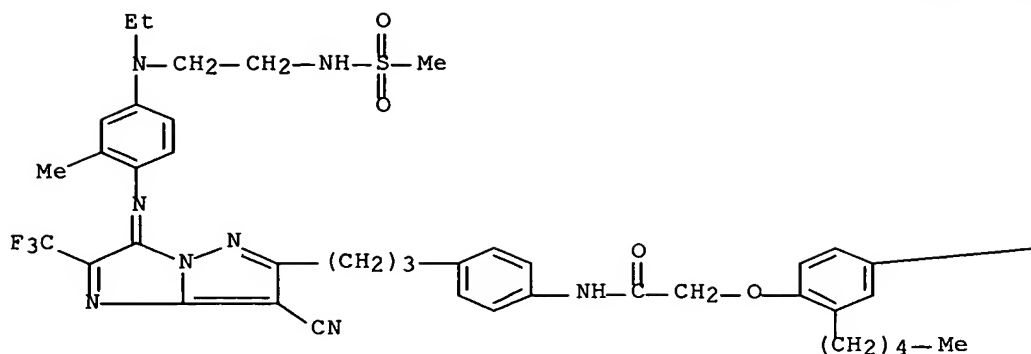
RN 145316-98-9 HCAPLUS

CN Methanesulfonamide, N-[2-[[4-[[7-cyano-6-methyl-2-(trifluoromethyl)-3H-imidazo[1,2-b]pyrazol-3-ylidene]amino]-3-methylphenyl]ethylamino]ethyl]- (9CI) (CA INDEX NAME)



RN 145316-99-0 HCAPLUS

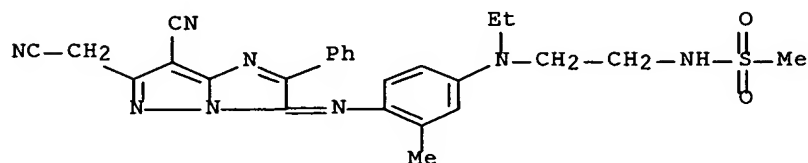
CN Acetamide, N-[4-[3-[7-cyano-3-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphenyl]imino]-2-(trifluoromethyl)-3H-imidazo[1,2-b]pyrazol-6-yl]propyl]phenyl]-2-(2,4-dipentylphenoxy)- (9CI) (CA INDEX NAME)



— (CH<sub>2</sub>)<sub>4</sub>—Me

RN 145317-01-7 HCAPLUS

CN Methanesulfonamide, N-[2-[[4-[[7-cyano-6-(cyanomethyl)-2-phenyl-3H-imidazo[1,2-b]pyrazol-3-ylidene]amino]-3-methylphenyl]ethylamino]ethyl]-(9CI) (CA INDEX NAME)



L5 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:430241 HCAPLUS Full-text

DOCUMENT NUMBER: 103:30241

TITLE: Silver halide color photographic photosensitive materials containing magenta coupler polymer latexes

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

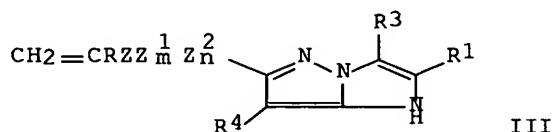
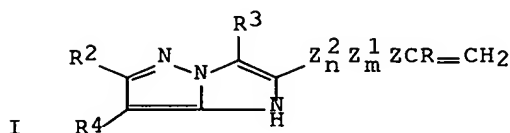
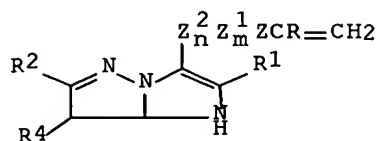
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60035732	A2	19850223	JP 1983-145331	19830808 <--
JP 02031374	B4	19900712		
US 4576910	A	19860318	US 1984-619422	19840611 <--
PRIORITY APPLN. INFO.:			JP 1983-103336	A 19830609
			JP 1983-145331	A 19830808

GI



AB Ag halide color photog. photosensitive materials have emulsion layers containing magenta coupler copolymer latex having structural repeating units derived from monomeric couplers I, II, or III [R = H, Cl-4 alkyl, Cl; R1, R2, R3 = H, or substituent; R4 = H, a group released during coupling reaction; Z = NHCO, O2C, phenylene; Z1 = (un)substituted alkylene, aralkylene, phenylene; Z2 = O, NH, S, SO, SO2, CONH, CO2, NHCO, NHCONH; n = 0, 1; m = 0, 1; and m ≥ n]. Thus, a Bu acrylate-6-methyl-3-(3-methacrylamido propyl)-1H-imidazo[1,2-b]pyrazole copolymer solution was dispersed in gelatin solution to give a latex, which was then added to a green-sensitive Ag(Br,Cl) emulsion, and the emulsion was coated on a film support. The photog. film was sensitometrically exposed and developed to form high Dmax magenta images (λmax 531 nm; D420nm/Dmax = 0.040).

IT 96910-54-2

RL: TEM (Technical or engineered material use); USES (Uses)  
(photog. magenta coupler)

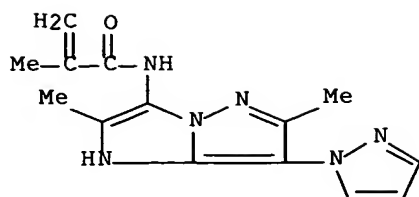
RN 96910-54-2 HCAPLUS

CN 2-Propenoic acid, ethyl ester, polymer with N-[2,6-dimethyl-7-(1H-pyrazol-1-yl)-1H-imidazo[1,2-b]pyrazol-3-yl]-2-methyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 96910-53-1

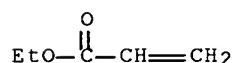
CMF C14 H16 N6 O



CM 2

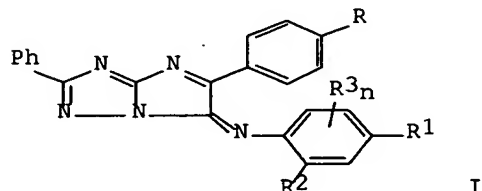
CRN 140-88-5

CMF C5 H8 O2



L5 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1978:38940 HCAPLUS Full-text  
 DOCUMENT NUMBER: 88:38940  
 TITLE: Imidazo[1,2-b]-s-triazoles as color couplers  
 AUTHOR(S): Bogie, J. A.; Norris, T.  
 CORPORATE SOURCE: UK  
 SOURCE: Research Disclosure (1977), 162, 73-5 (No. 16216)  
 CODEN: RSDSBB; ISSN: 0374-4353  
 DOCUMENT TYPE: Journal; Patent  
 LANGUAGE: English  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RD 162016		19771010		
PRIORITY APPLN. INFO.: GI			RD 1977-162016	19771010



AB 2,5-Diphenyl-1H-imidazo[1,2-b]-s-triazole [29017-08-1] and 5-(p-nitrophenyl)-2-phenyl-1H-imidazo[1,2-b]-s-triazole [64981-09-5] are color couplers which, when oxidatively coupled with aminophenols or phenylenediamines, give blue to cyan dyes (I; R = H, NO<sub>2</sub>; R<sub>1</sub> = OH, NEt<sub>2</sub>; R<sub>2</sub> = H, Me; R<sub>3n</sub> = Cl<sub>2</sub>, Cl<sub>3</sub>) with suitable hue and curve characteristics for use as image dyes in color photog.

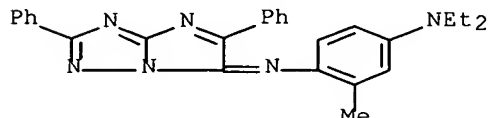
The couplers are prepared by quaternizing 2-amino-5-phenyl-1,3,4-oxadiazoles with phenacyl bromides, treating the products with NH<sub>3</sub> to form 2-amino-1-benzamido-4-phenylimidazoles, and cyclizing with POCl<sub>3</sub> in polyphosphoric acid.

IT 64981-12-0P 64981-13-1P 64981-14-2P  
64981-15-3P 64981-16-4P 64981-17-5P  
64981-18-6P 64981-19-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and spectra of)

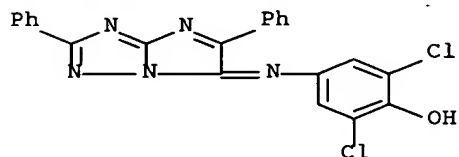
RN 64981-12-0 HCAPLUS

CN 1,4-Benzenediamine, N1-(2,5-diphenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene)-N4,N4-diethyl-2-methyl- (9CI) (CA INDEX NAME)



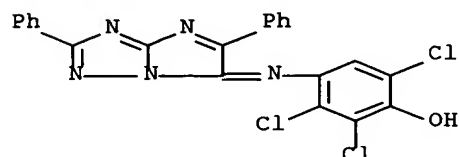
RN 64981-13-1 HCAPLUS

CN Phenol, 2,6-dichloro-4-[(2,5-diphenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene)amino]- (9CI) (CA INDEX NAME)



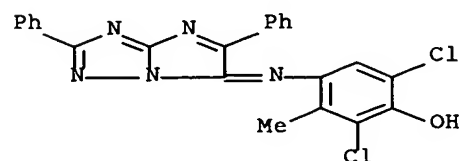
RN 64981-14-2 HCAPLUS

CN Phenol, 2,3,6-trichloro-4-[(2,5-diphenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene)amino]- (9CI) (CA INDEX NAME)



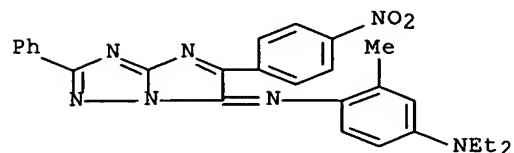
RN 64981-15-3 HCAPLUS

CN Phenol, 2,6-dichloro-4-[(2,5-diphenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene)amino]-3-methyl- (9CI) (CA INDEX NAME)



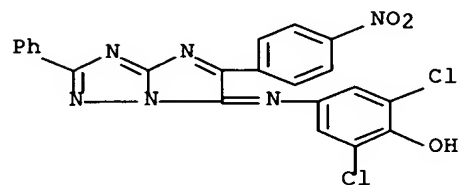
RN 64981-16-4 HCAPLUS

CN 1,4-Benzenediamine, N4,N4-diethyl-2-methyl-N1-[5-(4-nitrophenyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]- (9CI) (CA INDEX NAME)



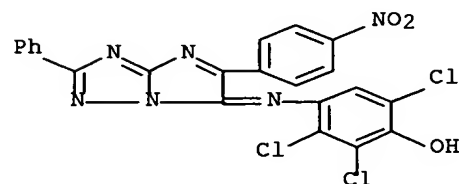
RN 64981-17-5 HCAPLUS

CN Phenol, 2,6-dichloro-4-[5-(4-nitrophenyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



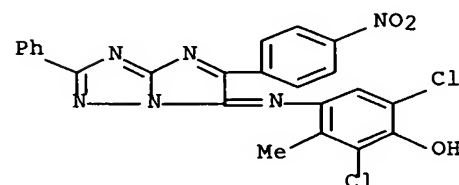
RN 64981-18-6 HCAPLUS

CN Phenol, 2,3,6-trichloro-4-[5-(4-nitrophenyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



RN 64981-19-7 HCAPLUS

CN Phenol, 2,6-dichloro-3-methyl-4-[5-(4-nitrophenyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)





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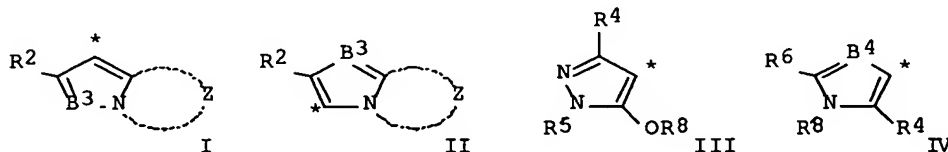
L1 STR  
 L3 130 SEA FILE=REGISTRY SSS FUL L1  
 L4 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L3  
 L5 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND PD=<OCTOBER 8, 1999  
 L6 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L4 NOT L5

=&gt; =&gt; d ibib abs hitstr l6 1-8

L6 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2004:1080124 HCAPLUS Full-text  
 DOCUMENT NUMBER: 142:59718  
 TITLE: Semiconductor for photoelectric converter,  
 photoelectric converter, and photoelectrochemical cell  
 INVENTOR(S): Ofuku, Koji; Otsu, Shinya; Kagawa, Nobuaki  
 PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 75 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004355960	A2	20041216	JP 2003-152404	20030529
PRIORITY APPLN. INFO.:			JP 2003-152404	20030529
OTHER SOURCE(S):	MARPAT	142:59718		

GI



AB The semiconductor contains pigment Q-B1:B2-A, where A = C5-6 arom or heterocyclic ring, B1 and B2 = -CR1: or -N: with at least 1 of them being -N:, R1 = H or a substituent, and Q = a carboxyl group containing unit I, II, III, or IV (B3 = CR3 or N, R2 and R3 = H or a substituent, Z = atom groups necessary to form a 5- or 6-membered ring, B4 = CR7 or N, R4-7 = H or a substituent, R8 = H, alkyl, or acyl group, and the unit is connected to B1 at \*). The semiconductor is a metal oxide of metal sulfide. The photoelec. converter has a layer of the semiconductor on a conductive support, and the photoelectrochem. cell has the photoelec. converter, a charge transporting layer, and a counter electrode.

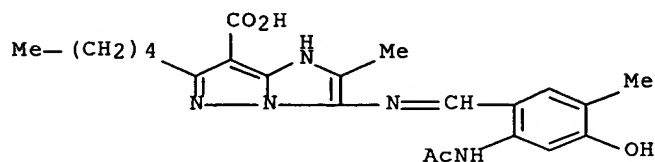
IT 808147-10-6

RL: MOA (Modifier or additive use); USES (Uses)  
 (sensitizing pigments for metal oxide or metal sulfide semiconductors for photoelec. converters and photoelectrochem. cells)

RN 808147-10-6 HCAPLUS

CN 1H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[[[2-(acetylamino)-4-

hydroxy-5-methylphenyl]methylene]amino]-2-methyl-6-pentyl- (9CI) (CA INDEX NAME)



L6 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2004:5200 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:78637  
 TITLE: Colored particle dispersion, ink jet ink, dye, and ink jet recording method  
 INVENTOR(S): Takahashi, Mari; Ikesu, Satoru; Suzuki, Takatugu; Iwamoto, Kyoko  
 PATENT ASSIGNEE(S): Konica Corporation, Japan  
 SOURCE: Eur. Pat. Appl., 88 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375611	A2	20040102	EP 2003-14187	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2004217884	A2	20040805	JP 2003-121442	20030425
US 2004010056	A1	20040115	US 2003-600160	20030620
PRIORITY APPLN. INFO.:			JP 2002-189751	A 20020628
			JP 2002-333321	A 20021118

OTHER SOURCE(S): MARPAT 140:78637

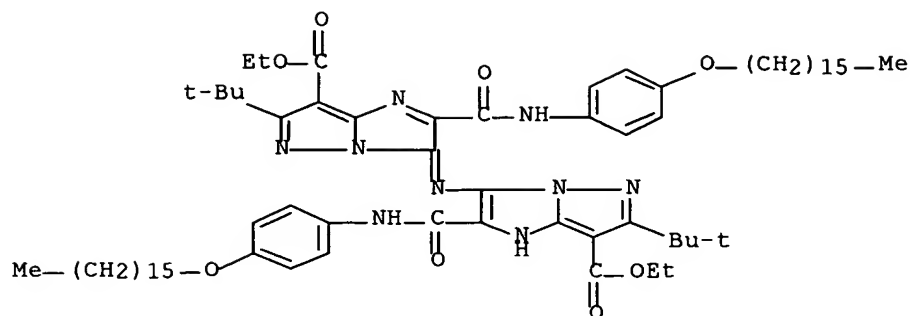
AB A colored dispersion comprises a polymer and a dye X:DB, wherein X is a heterocyclic or heteroacyclic group, D is a nitrogen atom or :CR1, R1 being a hydrogen atom or a substituent; and B is a heterocyclic or heteroacyclic group. A dispersion contained polyvinyl butyral and a dye.

IT 640299-96-3 640301-33-3 640303-71-5

RL: TEM (Technical or engineered material use); USES (Uses)  
 (dye; colored particle dispersion, ink jet ink, dye, and ink jet recording method)

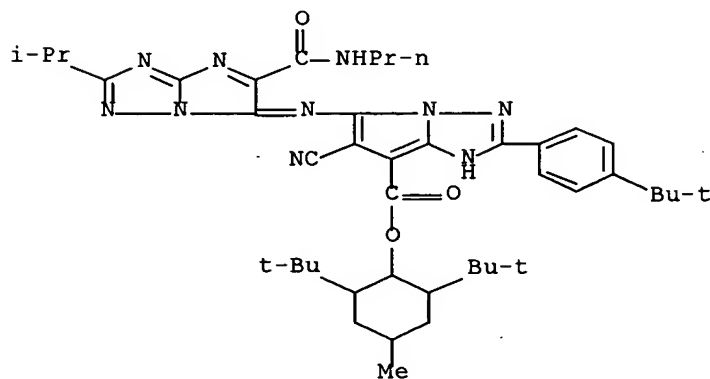
RN 640299-96-3 HCAPLUS

CN 1H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 6-(1,1-dimethylethyl)-3-[[6-(1,1-dimethylethyl)-7-(ethoxycarbonyl)-2-[[[4-(hexadecyloxy)phenyl]amino]carbonyl]-3H-imidazo[1,2-b]pyrazol-3-ylidene]amino]-2-[[[4-(hexadecyloxy)phenyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 640301-33-3 HCAPLUS

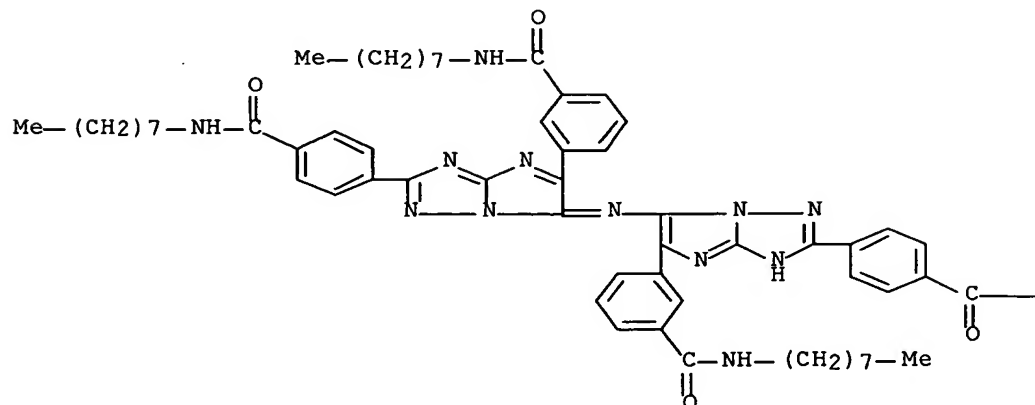
CN 1H-Pyrrolo[1,2-b][1,2,4]triazole-7-carboxylic acid, 6-cyano-2-[4-(1,1-dimethylethyl)phenyl]-5-[[2-(1-methylethyl)-5-[(propylamino)carbonyl]-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]-, 2,6-bis(1,1-dimethylethyl)-4-methylcyclohexyl ester (9CI) (CA INDEX NAME)



RN 640303-71-5 HCAPLUS

CN Benzamide, N-octyl-3-[2-[4-[(octylamino)carbonyl]phenyl]-6-[[5-[3-[(octylamino)carbonyl]phenyl]-2-[4-[(octylamino)carbonyl]phenyl]-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]-1H-imidazo[1,2-b][1,2,4]triazol-5-yl]- (9CI) (CA INDEX NAME)

PAGE 1-A

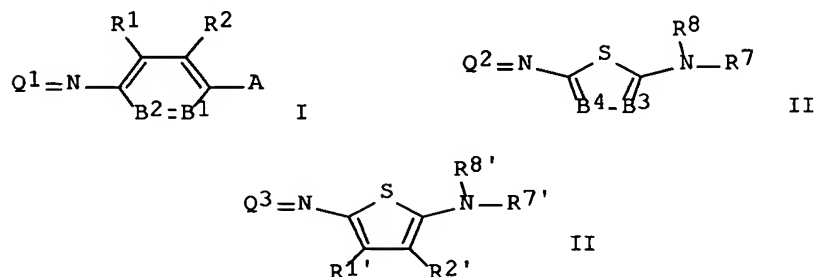


—NH—(CH<sub>2</sub>)<sub>7</sub>—Me

L6 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2003:906137 HCAPLUS Full-text  
 DOCUMENT NUMBER: 139:382887  
 TITLE: Coloring compositions, color microparticle  
 dispersions, aqueous jet inks containing them with  
 good light and water resistance, and ink-jet printing  
 using them  
 INVENTOR(S): Ofuku, Koji; Takahashi, Mari; Miura, Norio  
 PATENT ASSIGNEE(S): Konica Minolta Holdings Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 77 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003327860	A2	20031119	JP 2002-133967	20020509
PRIORITY APPLN. INFO.:			JP 2002-133967	20020509
OTHER SOURCE(S):	MARPAT	139:382887		

GI



AB The coloring compns. contain dyes selected from I [A = NR<sub>3</sub>R<sub>4</sub>, OH; R<sub>3</sub>, R<sub>4</sub> = H, alkyl, aryl, heteroring; B<sub>1</sub> = CR<sub>5</sub>, N; B<sub>2</sub> = CR<sub>6</sub>, N; R<sub>1</sub>, R<sub>2</sub>, R<sub>5</sub>, R<sub>6</sub> = H,

substituent; Q1 = pyrazolothiazolylidene, pyrazolopyrazolylidene, furopyrrolylidene, pyrrolooxazolylidene, imidazoindolylidene, etc. (may have substituents)], II (R7, R8 = same as R3, R4; B3, B4 = same as B1, B2; Q2 = Q1), and III [R7', R8' = same as R3, R4; R1', R2' = H, substituent; Q3 = R51COCR52, R53CR52, pyrazolotriazolylidene, pyridinonylidene, etc. (may have substituents); R51-53 = H, substituent]. Thus, a dispersion containing I (R1, R2 = H; B1 = CMe; B2 = N; A = diethylamino; Q1 = pyrazolothiazolylidene, substituent = XOCMeCONH, X = 2,4-di-tert-pentylphenyl) and polyvinyl butyral (BL-S) was mixed with solvents and H2O to give an ink showing good color.

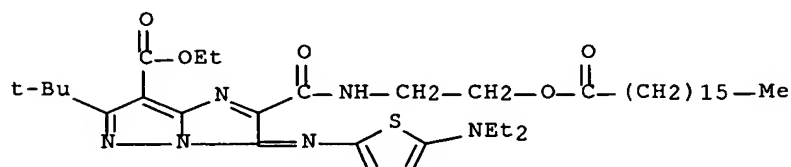
IT **624730-40-1**

RL: TEM (Technical or engineered material use); USES (Uses)

(dye compns. for aqueous jet inks with good light and water resistance)

RN 624730-40-1 HCAPLUS

CN 3H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[[5-(diethylamino)-2-thienyl]imino]-6-(1,1-dimethylethyl)-2-[[2-[(1-oxoheptadecyl)oxy]ethyl]amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:527638 HCAPLUS Full-text

DOCUMENT NUMBER: 139:102541

TITLE: Colorant dispersion compositions for water-based ink-jet inks and ink-jet recording method therefor

INVENTOR(S): Takahashi, Mari; Ofuku, Koji; Miura, Norio

PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 83 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

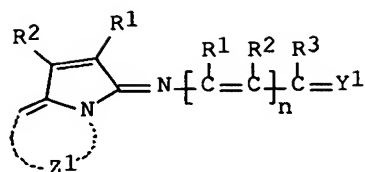
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

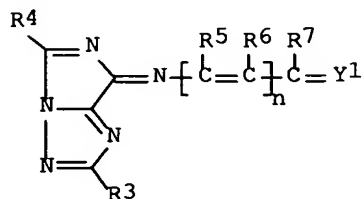
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2003192978	A2	20030709	JP 2001-396851	20011227
PRIORITY APPLN. INFO.:			JP 2001-396851	20011227
OTHER SOURCE(S):	MARPAT	139:102541		

GI



I



II

AB The title compns. have good particle dispersion stability and color picture light resistance, and are prepared by dispersing colorant fine particles (P) having core-shell structure in aqueous solution, wherein P comprises pigments (I), (II) or their analogs (R1-R7=H or other substituents, Z1=5- or 6-membered N-containing ring, Y1=5- or 6-membered aromatic ring, n=0-2), a hydrophobic polymer and an organic solvent with a b.p.>150°. Thus, dissolving and mixing 15 g polyvinyl butyral (S-Lec BL-S) with 10 g pigment (a pyrrolotriazole derivative, structure given) in 150 g Et acetate, dropping the solution into 150 g aqueous solution containing 3 g sodium laurylsulfonate, ultrasonically emulsifying the mixture then evaporating Et acetate gave a title composition, 2% of which was mixed with 15% ethylene glycol, 15% glycerin and 0.3% Surfynol 465 in balance water to give a title ink.

IT 558484-79-0 558485-15-7 558485-16-8

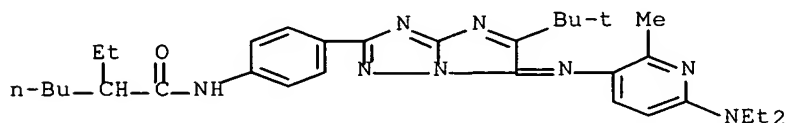
558485-17-9 558485-46-4 558485-47-5

RL: TEM (Technical or engineered material use); USES (Uses)

(pigment; in colorant dispersion compns. for water-based ink-jet inks with good particle dispersion stability)

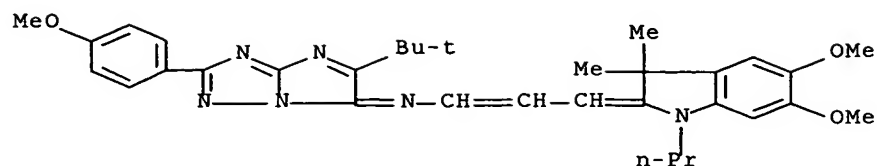
RN 558484-79-0 HCAPLUS

CN Hexanamide, N-[4-[6-[[6-(diethylamino)-2-methyl-3-pyridinyl]imino]-5-(1,1-dimethylethyl)-6H-imidazo[1,2-b][1,2,4]triazol-2-yl]phenyl]-2-ethyl- (9CI)  
(CA INDEX NAME)



RN 558485-15-7 HCAPLUS

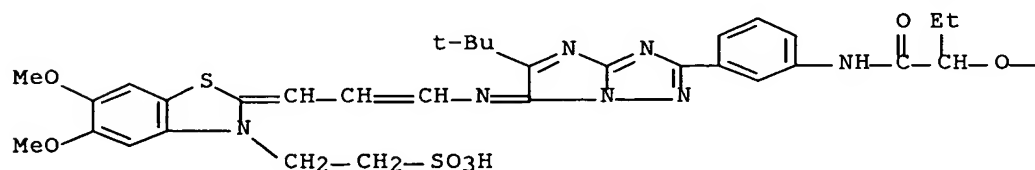
CN 1-Propen-1-amine, 3-(1,3-dihydro-5,6-dimethoxy-3,3-dimethyl-1-propyl-2H-indol-2-ylidene)-N-[5-(1,1-dimethylethyl)-2-(4-methoxyphenyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]- (9CI) (CA INDEX NAME)



RN 558485-16-8 HCAPLUS

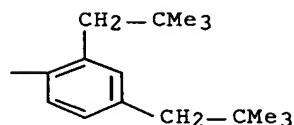
CN 3(2H)-Benzothiazoleethanesulfonic acid, 2-[3-[[2-[3-[[2-[2,4-bis(2,2-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]-5-(1,1-dimethylethyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]-2-propenylidene]-5,6-dimethoxy-, monosodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



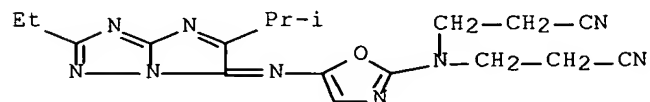
● Na

PAGE 1-B



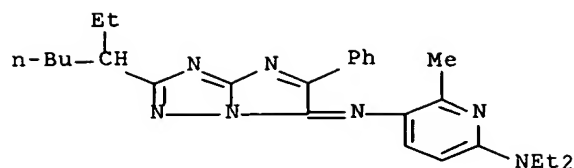
RN 558485-17-9 HCAPLUS

CN Propanenitrile, 3,3'-[[5-[[2-ethyl-5-(1-methylethyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]-2-oxazolyl]imino]bis- (9CI) (CA INDEX NAME)



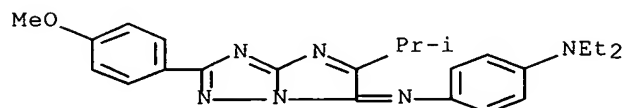
RN 558485-46-4 HCAPLUS

CN 2,5-Pyridinediamine, N2,N2-diethyl-N5-[2-(1-ethylpentyl)-5-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-6-methyl- (9CI) (CA INDEX NAME)



RN 558485-47-5 HCAPLUS

CN 1,4-Benzenediamine, N,N-diethyl-N'-[2-(4-methoxyphenyl)-5-(1-methylethyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]- (9CI) (CA INDEX NAME)



L6 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:168566 HCAPLUS Full-text

DOCUMENT NUMBER: 138:223083

TITLE: Azomethine and methine compounds, their black dyes, their ink compositions, and method for jet-printing  
INVENTOR(S): Yamakawa, Kazuyoshi; Suzuki, Akira; Kaneko, Yuji; Naruse, Hideaki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 74 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

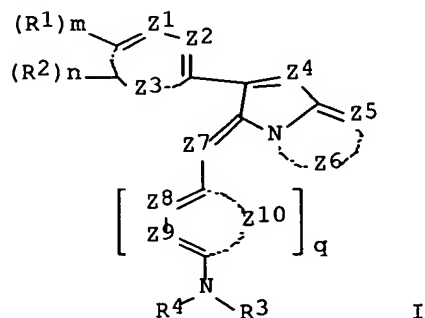
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003064273	A2	20030305	JP 2001-255149	20010824
PRIORITY APPLN. INFO.:			JP 2001-255149	20010824
OTHER SOURCE(S):	MARPAT	138:223083		

GI





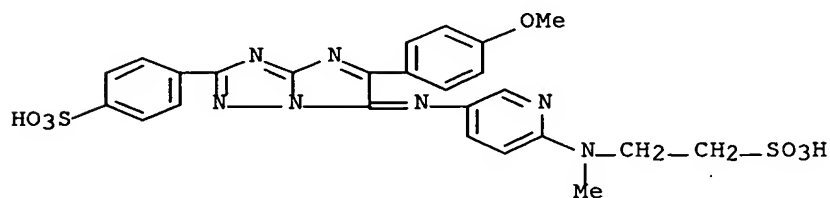
AB The ink compns. comprise dyes I (Z1, Z2, Z4, Z5, Z7-Z9 = N, CR11; Z3, Z6, Z10 = nonmetallic atom forming 5-7-membered ring; R1, R2 = halo, electron-donating group with Hammett  $\sigma$  value  $<-0.20$ ; R3, R4 = H, substituent; R11 = H, substituent; m = 0, 1; n = 0-4; q = 1, 2). Thus, a black ink containing II gave images with good lightfastness and ozone resistance.

IT 500569-86-8 500569-87-9 500570-05-8  
500570-24-1

RL: TEM (Technical or engineered material use); USES (Uses)  
(black azomethine and methine dyes for jet-printing ink compns. with good lightfastness)

RN 500569-86-8 HCAPLUS

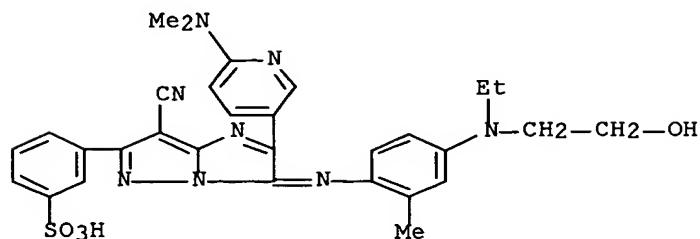
CN Benzenesulfonic acid, 4-[5-(4-methoxyphenyl)-6-[[6-[methyl(2-sulfoethyl)amino]-3-pyridinyl]imino]-6H-imidazo[1,2-b][1,2,4]triazol-2-yl]-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

RN 500569-87-9 HCAPLUS

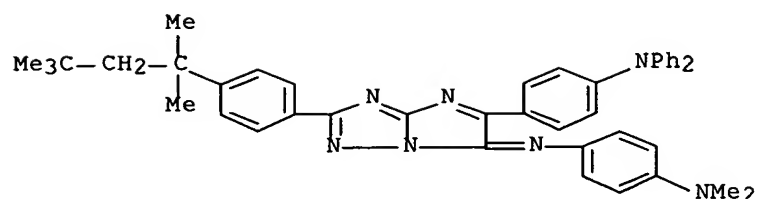
CN Benzenesulfonic acid, 3-[7-cyano-2-[6-(dimethylamino)-3-pyridinyl]-3-[[4-[ethyl(2-hydroxyethyl)amino]-2-methylphenyl]imino]-3H-imidazo[1,2-b]pyrazol-6-yl]-, monosodium salt (9CI) (CA INDEX NAME)



● Na

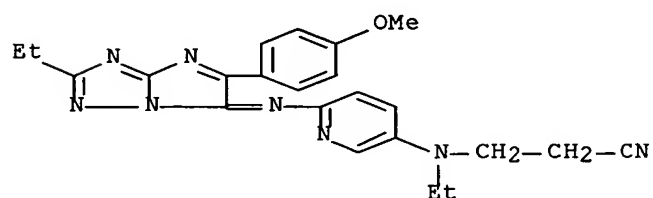
RN 500570-05-8 HCAPLUS

CN 1,4-Benzenediamine, N'-[5-[4-(diphenylamino)phenyl]-2-[4-(1,1,3,3-tetramethylbutyl)phenyl]-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N,N-dimethyl- (9CI) (CA INDEX NAME)



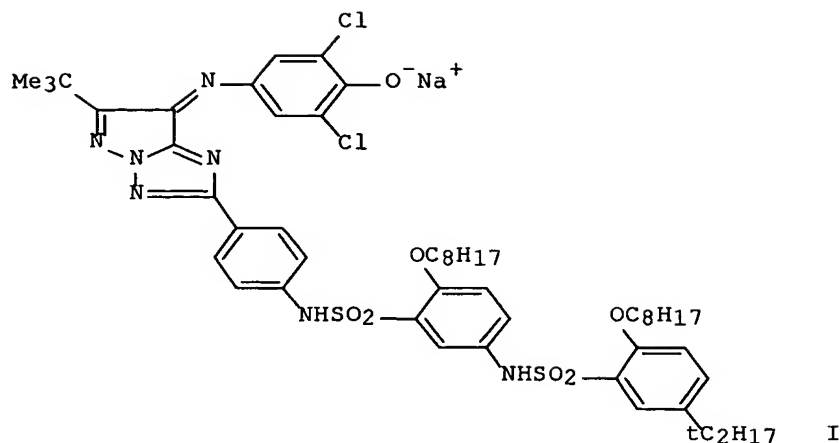
RN 500570-24-1 HCAPLUS

CN Propanenitrile, 3-[ethyl[6-[[2-ethyl-5-(4-methoxyphenyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]-3-pyridinyl]amino]- (9CI) (CA INDEX NAME)



L6 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2002:202282 HCAPLUS Full-text  
 DOCUMENT NUMBER: 136:233690  
 TITLE: Colored compositions, jet-printing inks, and method for printing using the inks  
 INVENTOR(S): Tanaka, Shigeaki  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 50 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002080740	A2	20020319	JP 2000-273617	20000908
PRIORITY APPLN. INFO.:			JP 2000-273617	20000908
OTHER SOURCE(S):	MARPAT	136:233690		
GI				



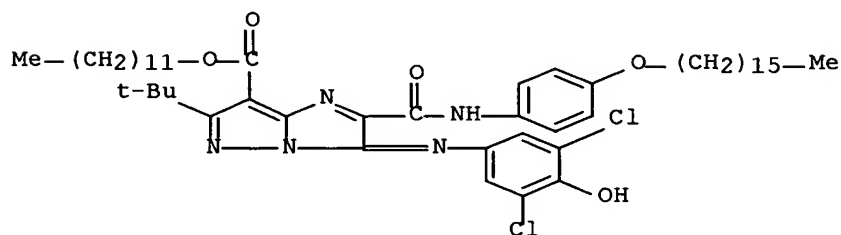
AB The compns. contain oil-soluble dyes Q:N-p-C<sub>6</sub>H<sub>4</sub>-nRnO-X<sup>+</sup> (Q = chromophoric group; X = cation-foamable atom or atomic group; R = substituent; n = 0-4). Thus, water was added to a iso-PrOH/tert-butanol solution of pyrazolotriazoleazomethine compound I and 85:15 sec-Bu acrylate-acrylic acid copolymer to give a dispersion (particle size 49 nm), which was made into a water-thinned jet-printing ink, resulting in good printability and water and light resistance.

IT **403602-76-6**

RL: TEM (Technical or engineered material use); USES (Uses)  
(oil-soluble dyes; colored compns. for water-thinned jet-printing inks with good printability)

RN 403602-76-6 HCAPLUS

CN 3H-Imidazo[1,2-b]pyrazole-7-carboxylic acid, 3-[(3,5-dichloro-4-hydroxyphenyl)imino]-6-[(1,1-dimethylethyl)-2-[[[4-(hexadecyloxy)phenyl]amino]carbonyl]-, dodecyl ester, monopotassium salt (9CI) (CA INDEX NAME)



● K

L6 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2001:283960 HCAPLUS Full-text

DOCUMENT NUMBER: 134:295829

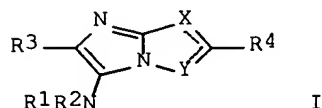
TITLE: Preparation of aminoimidazo[2,1-b]thiazoles, -pyrazoles, and -triazoles as analgesics

INVENTOR(S): Gerlach, Matthias; Maul, Corinna

PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany

SOURCE: PCT Int. Appl., 56 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027118	A2	20010419	WO 2000-EP9097	20000918
WO 2001027118	A3	20010920		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19948434	A1	20010607	DE 1999-19948434	19991008
DE 19948436	A1	20010607	DE 1999-19948436	19991008
CA 2388476	AA	20010419	CA 2000-2388476	20000918
BR 2000014817	A	20020618	BR 2000-14817	20000918
EP 1218383	A2	20020703	EP 2000-967693	20000918
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JP 2003511456	T2	20030325	JP 2001-530336	20000918
NZ 518390	A	20031031	NZ 2000-518390	20000918
NO 2002001566	A	20020527	NO 2002-1566	20020403
US 2002183320	A1	20021205	US 2002-117335	20020408
US 6657064	B2	20031202		
ZA 2002003582	A	20030905	ZA 2002-3582	20020506
US 2004023927	A1	20040205	US 2003-633579	20030805
PRIORITY APPLN. INFO.:				
			DE 1999-19948434	A 19991008
			DE 1999-19948436	A 19991008
			DE 1999-19948438	A 19991008
			WO 2000-EP9097	W 20000918
			US 2002-117335	A3 20020408
OTHER SOURCE(S): MARPAT 134:295829				
GI				



AB Title compds. [I; R1 = CMe3, cyanohexyl, (substituted) Ph, cycloalkyl, etc.; R2 = H, (branched) (substituted) alkylcarbonyl, Ph, naphthyl, pyridyl, thiazolyl, furoyl, etc.; R3 = (branched) alkylcycloalkyl, (substituted) Ph, naphthyl, quinolinyl, anthracenyl, phenanthrenyl, etc.; X = CR5, N, S; Y = N, but when X = S, Y = CR6, N; R4, R5, R6 = H, (branched) alkyl, halo, CF3, cyano, NO2, amino, etc.], were prepared Using a Zymark robotic synthesis system, 3-amino-1,2,4-triazole and HClO4 in CH2Cl2, furfural in CH2Cl2, and tert-butylisonitrile in CH2Cl2 were added successively to a reactor tube at 15° followed by 11 h stirring at 15° to give tert-butyl-(5-furan-2-yl-

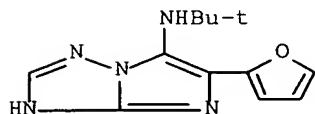
imidazo[1,2-b][1,2,4]triazol-6-yl)amine. Several I at 10  $\mu$ M showed 34-77%  $\alpha_2$  adrenoceptor affinity.

IT 334771-60-7P 334771-63-0P 334771-65-2P  
 334771-66-3P 334771-68-5P 334771-70-9P  
 334771-77-6P 334771-83-4P 334771-86-7P  
 334771-88-9P 334771-90-3P 334771-93-6P  
 334771-95-8P 334772-02-0P 334772-04-2P  
 334772-05-3P 334772-06-4P 334772-07-5P  
 334772-08-6P 334772-12-2P 334772-13-3P  
 334772-14-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of aminoimidazothiazoles, -pyrazoles, and -triazoles as analgesics)

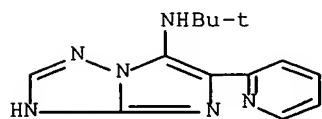
RN 334771-60-7 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-furanyl)- (9CI) (CA INDEX NAME)



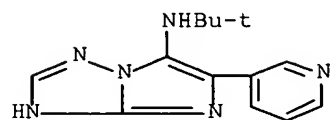
RN 334771-63-0 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-pyridinyl)- (9CI) (CA INDEX NAME)



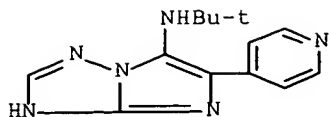
RN 334771-65-2 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(3-pyridinyl)- (9CI) (CA INDEX NAME)



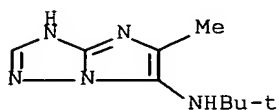
RN 334771-66-3 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(4-pyridinyl)- (9CI) (CA INDEX NAME)



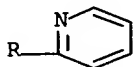
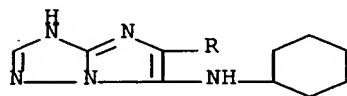
RN 334771-68-5 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-methyl-  
(9CI) (CA INDEX NAME)



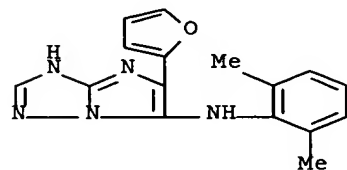
RN 334771-70-9 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-cyclohexyl-5-(2-pyridinyl)-  
(9CI) (CA INDEX NAME)



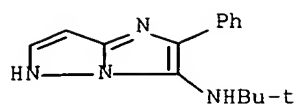
RN 334771-77-6 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(2,6-dimethylphenyl)-5-(2-furanyl)- (9CI) (CA INDEX NAME)



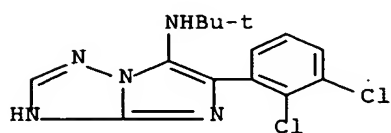
RN 334771-83-4 HCAPLUS

CN 5H-Imidazo[1,2-b]pyrazol-3-amine, N-(1,1-dimethylethyl)-2-phenyl- (9CI)  
(CA INDEX NAME)



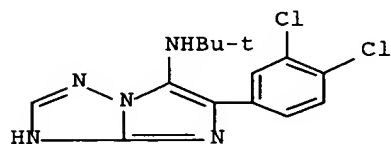
RN 334771-86-7 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, 5-(2,3-dichlorophenyl)-N-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



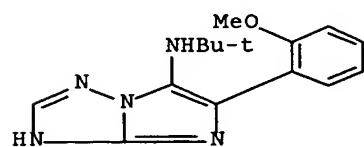
RN 334771-88-9 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, 5-(3,4-dichlorophenyl)-N-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



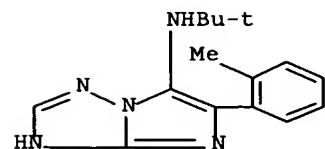
RN 334771-90-3 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



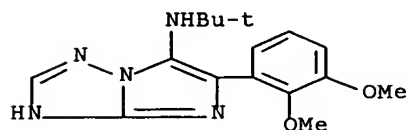
RN 334771-93-6 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-methylphenyl)- (9CI) (CA INDEX NAME)



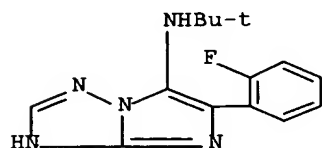
RN 334771-95-8 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, 5-(2,3-dimethoxyphenyl)-N-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



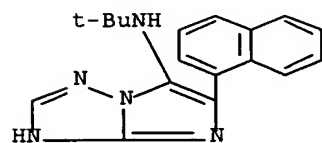
RN 334772-02-0 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-fluorophenyl)- (9CI) (CA INDEX NAME)



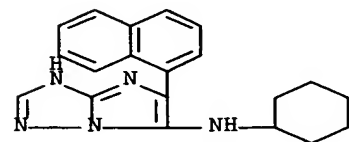
RN 334772-04-2 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(1-naphthalenyl)- (9CI) (CA INDEX NAME)



RN 334772-05-3 HCAPLUS

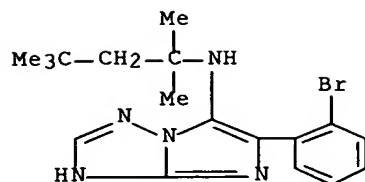
CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-cyclohexyl-5-(1-naphthalenyl)- (9CI) (CA INDEX NAME)



RN 334772-06-4 HCAPLUS

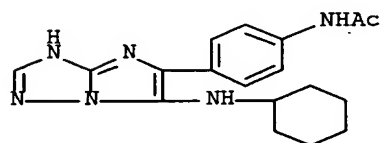
CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, 5-(2-bromophenyl)-N-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)





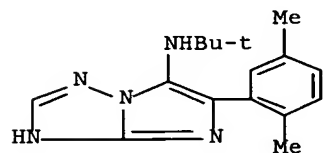
RN 334772-07-5 HCAPLUS

CN Acetamide, N-[4-[6-(cyclohexylamino)-1H-imidazo[1,2-b][1,2,4]triazol-5-yl]phenyl]- (9CI) (CA INDEX NAME)



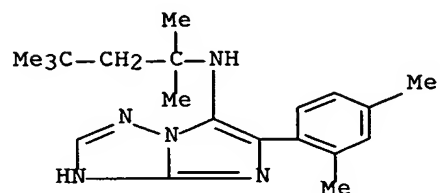
RN 334772-08-6 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2,5-dimethylphenyl)- (9CI) (CA INDEX NAME)



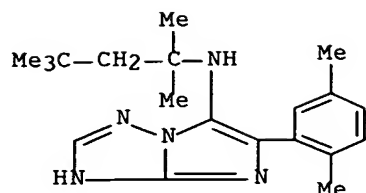
RN 334772-12-2 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, 5-(2,4-dimethylphenyl)-N-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



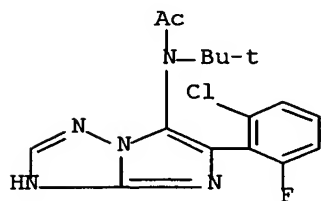
RN 334772-13-3 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, 5-(2,5-dimethylphenyl)-N-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



RN 334772-14-4 HCAPLUS

CN Acetamide, N-[5-(2-chloro-6-fluorophenyl)-1H-imidazo[1,2-b][1,2,4]triazol-6-yl]-N-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



L6 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2000:232650 HCAPLUS Full-text

DOCUMENT NUMBER: 132:266590

TITLE: Imidazotriazole and azomethine-based ink-jet printing  
ink with good image formation

INVENTOR(S): Kamio, Takayoshi

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

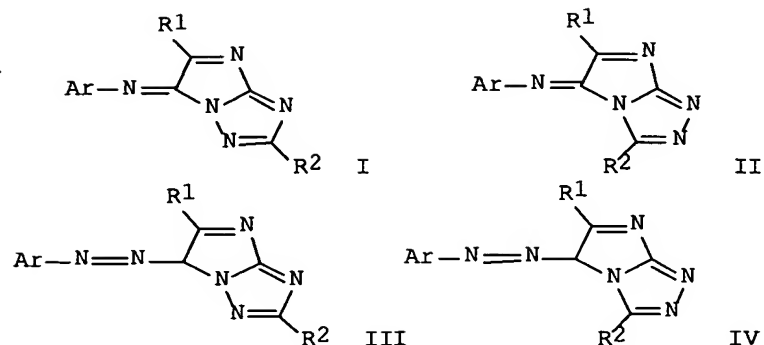
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2000103996	A2	20000411	JP 1998-273961	19980928
PRIORITY APPLN. INFO.:			JP 1998-273961	19980928
GI				



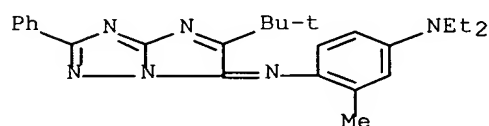
AB The ink is prepared from I, II, III and/or IV (R1, R2 = H, monovalent substitute; Ar = C5-6 members aromatic ring and/or heterocyclic ring). Thus, an oily ink was made from di-Et phthalate 30, diisopropyl adipate 44, N,N-diethyldodecaneamide 20 and I (R1 = tert-Bu; R2 = C6H5; Ar = p-diethylamino-o-tolyl).

IT 162753-23-3 162753-34-6 263159-97-3  
263159-98-4 263159-99-5 263160-00-5

RL: TEM (Technical or engineered material use); USES (Uses)  
(imidazotriazole and azomethine-based ink-jet printing ink with good image formation)

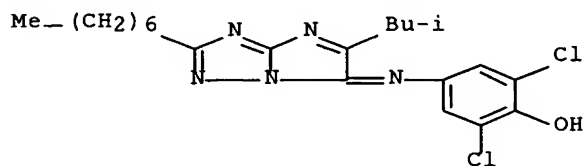
RN 162753-23-3 HCAPLUS

CN 1,4-Benzenediamine, N1-[5-(1,1-dimethylethyl)-2-phenyl-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N4,N4-diethyl-2-methyl- (9CI) (CA INDEX NAME)



RN 162753-34-6 HCAPLUS

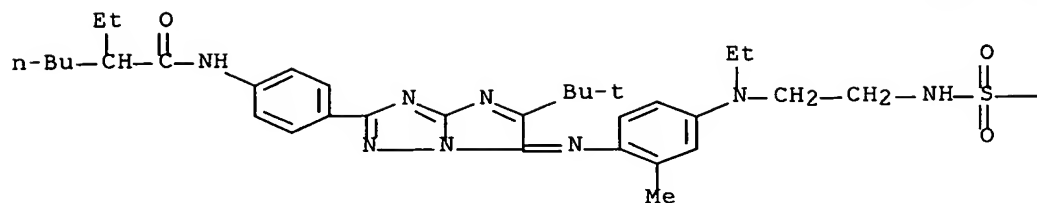
CN Phenol, 2,6-dichloro-4-[[2-heptyl-5-(2-methylpropyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]amino]- (9CI) (CA INDEX NAME)



RN 263159-97-3 HCAPLUS

CN Hexanamide, N-[4-[5-(1,1-dimethylethyl)-6-[[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphenyl]imino]-6H-imidazo[1,2-b][1,2,4]triazol-2-yl]phenyl]-2-ethyl- (9CI) (CA INDEX NAME)

PAGE 1-A

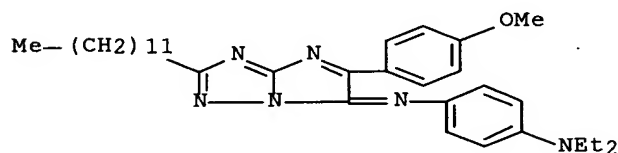


PAGE 1-B

—Me

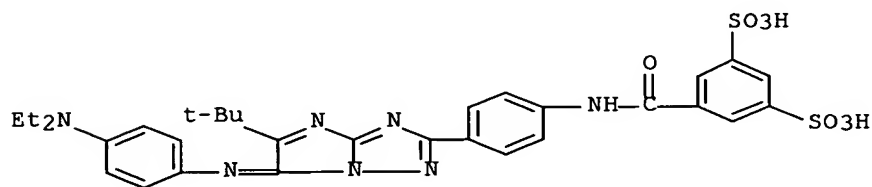
RN 263159-98-4 HCAPLUS

CN 1,4-Benzenediamine, N'-[2-dodecyl-5-(4-methoxyphenyl)-6H-imidazo[1,2-b][1,2,4]triazol-6-ylidene]-N,N-diethyl- (9CI) (CA INDEX NAME)



RN 263159-99-5 HCAPLUS

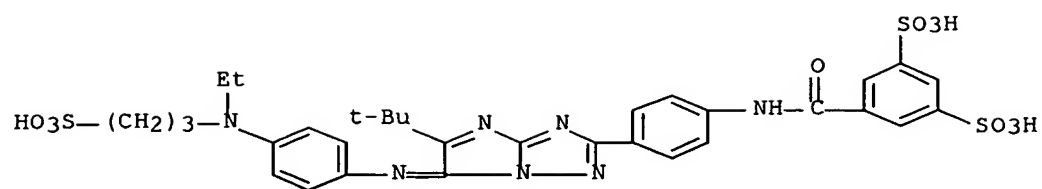
CN 1,3-Benzenedisulfonic acid, 5-[[[4-[6-[[4-(diethylamino)phenyl]imino]-5-(1,1-dimethylethyl)-6H-imidazo[1,2-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 263160-00-5 HCAPLUS

CN 1,3-Benzenedisulfonic acid, 5-[[[4-[5-(1,1-dimethylethyl)-6-[[4-[ethyl(3-sulfopropyl)amino]phenyl]imino]-6H-imidazo[1,2-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, trisodium salt (9CI) (CA INDEX NAME)



● 3 Na

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